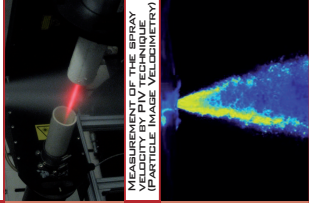


BETTATI ANTINCENDIO R&D

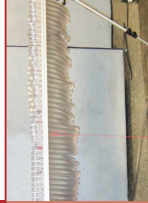
NOZZLES CHARACTERIZATION

MEASUREMENT OF SPRAY PROPERTIES (SIZE DISTRIBUTION (LASER, MALVERN))

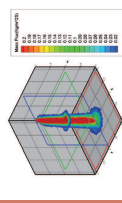


MEASUREMENT OF THE SPRAY (PARTICLE IMAGE VELOCIMETRY)

EVALUATION OF THE NOZZLE AREA COVERAGE WITH PATTERNATOR



NUMERICAL SIMULATION OF WATER SUPPLIES SPRAY (FDS, NIST)



LABORATORY TESTS

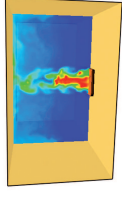
TESTS OF EXTINGUISHING WITH POOL FIRE



TESTS OF EXTINGUISHING WITH HAZARD STORAGE



NUMERICAL SIMULATION (FDS, NIST)



STANDARD REQUIREMENTS

THE STANDARDS

FIXED FIRE-FIGHTING SYSTEMS - WATERMIST SYSTEMS. DESIGN AND INSTALLATION CEN/TS 14972:2008

DOES NOT DEFINE DESIGN DENSITY OPERATING PRESSURE NOZZLES SPACING

WATER MIST SYSTEMS CAN BE REALIZED FOLLOWING A DEMONSTRATION OF EFFECTIVENESS ON FIRES ON REAL SCALE FOR THE TYPES AND DIMENSIONS OF THE FIRE HAZARD TO BE ADDRESSED

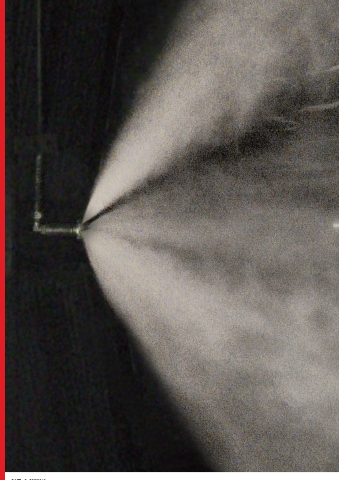
TESTS PERFORMED BY BETTATI ANTINCENDIO WITH FIRE SCENARIOS DEFINED BY NORMATIVES



IN PROGRESS FOR OH1, OH2, OH3



TESTS PERFORMED BY BETTATI ANTINCENDIO WITH FIRE SCENARIOS DEFINED IN ACCORDANCE WITH THE CUSTOMER AND THE THIRD BODY



WATER MIST

ADVANTAGES

MAXIMUM EFFECTIVENESS. NO ENVIRONMENTAL IMPACT.

- LIMITED WATER CONSUMPTION
- CONTROL, SUPPRESSION AND FIRE EXTINGUISHING
- SECURITY FOR PEOPLE AND THE ENVIRONMENT
- REDUCED SIZE OF THE DISTRIBUTION PIPES
- NEW TEST FOR LAND APPLICATION CLASSIFIED AS OH1, OH2, OH3 AND OTHER SPECIAL HAZARD

Fire protection technology

WATER MIST SYSTEM

THE FUTURE: MORE TESTS AND REFINEMENT OF THE NUMERICAL MODEL TO INCREASE THE RELIABILITY OF THE SIMULATIONS

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